## PROJECT DESCRITION

# GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY SIGNAL WITH INTERSECTION LIGHTING FOR MAINTENANCE OF TRAFFIC AT THE INTERSECTION OF MD 2 (SOLOMON'S ISLAND ROAD) AT MD 253 IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN A N ORTH/SOUTH DIRECTION.

## INTERESECTION OPERATION

AN EIGHT (8) PHASE (FULLY ACTUATED) SYSTEM READY CONTROLLER WITH FOUR (4) RACK MOUNTED LOOP DETECTOR AMPLIFIERS HOUSES IN A SIZE SIX (6) BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION. FOR THIS STAGE OF M.O.T., NORTHBOUND AND SOUTHBOUND MD 2 SHALL OPERATE CONCURRENTLY. EASTBOUND MD 253 SHALL OPERATE IN AN EXCLUSIVE PHASE. THE SIGNAL SHALL REST IN PHASE 2 AND 6.

#### MAINTENANCE OF TRAFFIC

THE FOLLOWING TEMPORARY WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THIS PROJECT.

104.00-30 104.02-02 104.32-02

# PROJECT CONTACTS:

MR. PAUL ARMSTRONG, DISTRICT ENGINEER PHONE: (410) 841-5450 MR. JOHN MAYS.ASSIST.,DISTRICT ENGINEER UTILTIES

SHA, TRAFFIC SIGNAL SHOP MR. EDWARD RODENHIZER,CHIEF

PHONE: (410) 841-5450

MR. RICHARD L. DAFF SR., CHIEF, TRAFFIC OPERATIONS DIVISION MR. LARRY ELLIOTT, ASSIST., DISTRICT ENGINEER-TRAFFIC

PHONE: (410) 787-7630

### A. Equipment to be supplied by the Administration.

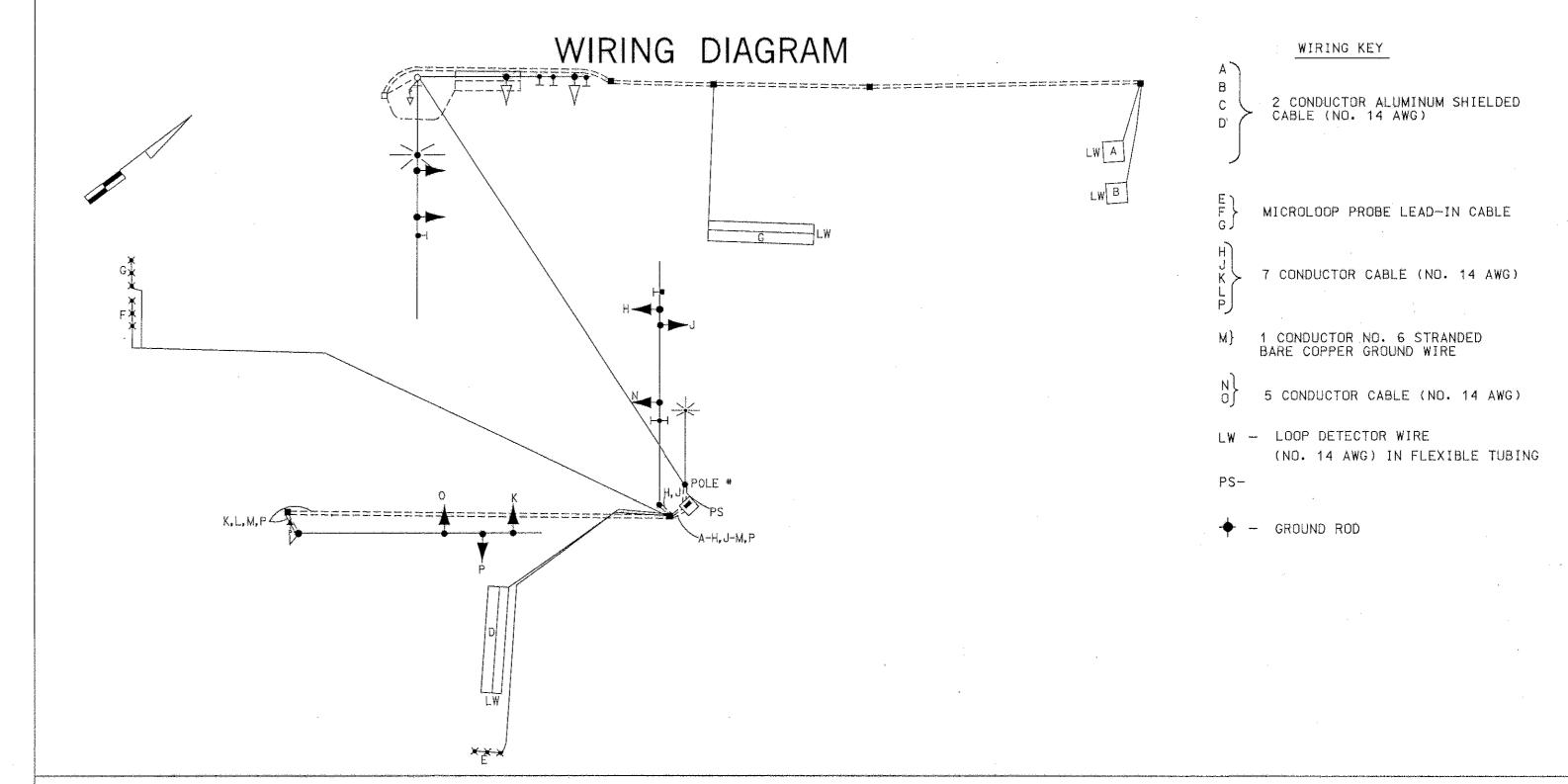
CATEGORY QUANTITY UNIT SPECIFICATION SECTION DESCRIPTION CODE NO. EA 816 Eight phase (fully actuated) controller and

cabinet - base mount EA 817 Four channel rack mounted loop detector 900000 6 amplifier (delay output)

973023 21 SF 813 Sheet aluminum signs consisting of: "2 EA D3-2 ( 16"" x var)"

# B. Equipment to be furnished and /or installed by the Contractor.

	203030	3	CY	205	Test pit excavation
	585416	290	LF	555	Furnish and install 24 in. white reflective thermoplastic pavement markings
	801004	12	CY	801	Furnish and install concrete for signal foundation
	837001	2 .	EΑ	804	Furnish and install ground rod $-3/4$ in, diameter x 10 ft.
	800000	40	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit – trenched
	805155	120	<b>L</b> F	805	Furnish and install 4 in. schedule 80 rigid PVC conduit - slotted
	800000	160	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit — trenched
	805150	220	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit — slotted
	805160	50	LF	805	Furnish and install 1 in, liquid tight flexible non- metallic conduit for detector wire sleeve
	800000	20	LF	805	Furnish and install 1 in. galvanized steel conduit
	807205	1	ΕÁ	807	Furnish and install Control & Distribution Equipment
	861104	210	LF	810	Furnish and install electrical cable — 2 conductor (aluminum shielded)
	861107	220	LF	810	Furnish and install electrical cable — 5 conductor (No. 14 AWG)
	861108	815	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG)
	862101	1190	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
	811001	6	ΕA	811	Furnish and install electrical handhele
	813014	21	SF	813	Install ground mounted signs
	800000	17	ΕA	814	Furnish and install 12 in. standard aluminum traffic signal head section
	800000	2	EA	814	Furnish and install 8 in. standard aluminum traffic signal head section
	862102	1126	LF	815	Furnish and install sawout for signal
	800000	3	ΕA	815	Furnish and install microloop probe set with 500 ft. lead-in cable
	871117	1	ΕA	816	Install eight phase (fully actuated) controller and cabinet — base mount
	816001	1	ΕA	816	Remove and salvage of controller and cabinet (any type)
	865001	1	EΑ	817	Furnish and install pushbutton and sign
	800000	2	ΕA	818	Furnish and install steel pole with a single 70 ft. mast arm
	800000	LS	LS	xxx	Remove and dispose of existing equipment
٠	800000	- 2	ΕA	814	Furnish and install 12" pedestrian traffic signal head



# PHASE SEQUENCE CHART

PHASE 2 AND 5 **⊲**G/G | **⊲**G/G | 2 AND 5 CHANGE |**∢**Y-/G | **∢**Y-/G | G | DM, DM PHASE 2 AND 6 PHASE 2 AND 6 CHANGE PHASE 3 PHASE 3 CHANGE ◆G/G ◆G/G ◆G/G DW DW PHASE 4 PHASE 4 CHANGE ALT PHASE 3 PED CLEARENCE ALT PHASE 3 CHANGE R DW DW FLASHING | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | DARK | DARK | OPERATION

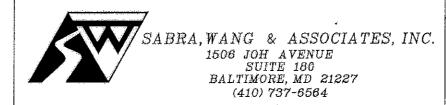
STAGE II



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 2 (SOLOMON'S ISLAND ROAD) AND MAYO ROAD



AWN BY:	A.FORNARO	F.A.P. NO.	-
ECKED BY:	D. PETERS	S.H.A. NO.	
ALE:	NONE	COUNTY:	ANNE ARUNDEL
TE:	OCTOBER, 1999	LOG MILE:	02002017.35
		E	

694 F SHEET NO. T.I.M.S. NO.